



Intranet Solution

HELP

RESULTS

SEARCH
FORM

1997-544752 : Hand collision detection apparatus of machine tool attached to ram

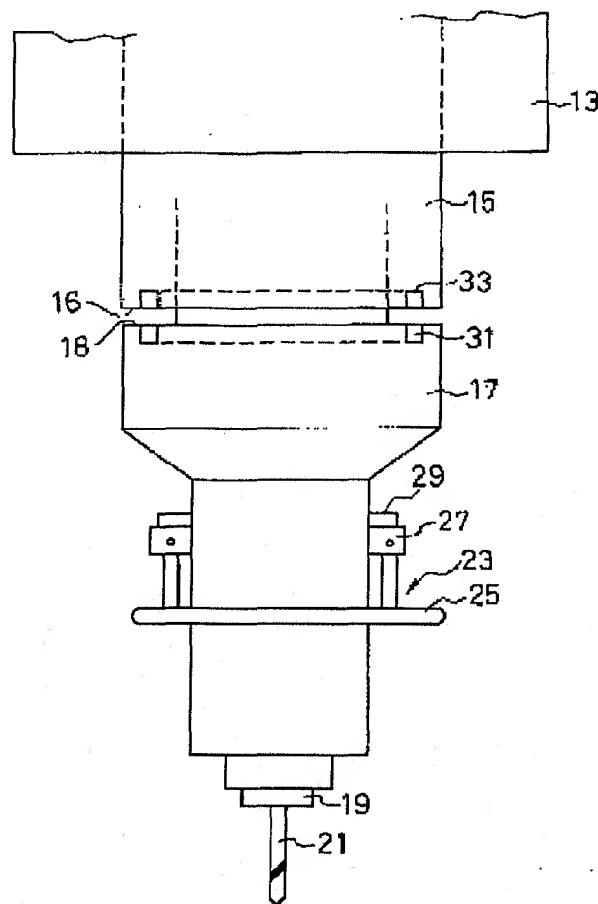
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Title	Hand collision detection apparatus of machine tool attached to rams includes hand end induction coil and body side induction coil provided in respective processing head and ram sides at air interval
Patentee(s)	(TOSI) TOSHIBA MACHINE CO LTD
Inventor(s)	
Abstract	JP-09262744 A; The apparatus includes a processing head (17) with a tool (21), provided on a movable ram (15). A processing head is capable of rotating about a central axle line of the ram. If the junction part of the ram and the processing head, a ram side induction coil (33) and a head end induction coil (31) are provided at the respective side in a gap. An ON/OFF switch (2a) which is connected in series with the head end induction coil is provided in tool side end of the processing head. An AC power supply unit which acts as a power source for head end induction coil and a collision detection signal processing circuits are provided in tool side of the processing head. A collision detection (23) is provided, which detects the collision that is the operation state of the ON/OFF switch, based on the variation in the impedance value of the head end induction coil which is magnetically coupled with the body side induction coil and outputs impedance change to the collision detection signal processor.;
Use/Advantage	Enables free rotation of processing head. Eliminates use of exclusive power supply battery, for collision detection sensor. Improves accuracy of apparatus.
Patent Family	Country & No. Date Kind Derwent Week
	JP-09262744 07-Oct-1997 A DW.199750
Priority	Country & No. Date
	JP-0074418 28-Mar-1996
Application	Country & No. Date
	JP-0074418 28-Mar-1996
IPC	B23Q-017/22
Derwent Class(es)	P56; S02; T01; X25;
Primary Accession Number	1997-544752

Country: JPA - Patent No.: 09262744 - Image No.: 1 [[Hi Res Image](#)]



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1998-514381 : Electric power supply apparatus of industrial machine

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SEARCH FORM

Title

Electric power supply apparatus of industrial machine has electric power feed zone which forms inductive coupling in order to supply electric power to drive mechanism in tool holder, and to detection mechanism that detects operating state of drive mechanism

Patentee(s)

(MASU/) MASUDA Y; (NTEN-) NT ENG KK

Inventor(s)

Abstract

JP-10225836 A; The apparatus (10) has an electric **power** feed zone (20) for rotatable **tool** holder (18). A drive mechanism for performing predetermined work is provided on the **tool** holder. A detection mechanism which detects the operating state of the drive mechanism is built in the electric **power** feed zone. The electric **power** feed zone forms an **inductive** coupling to the **tool** holder in order to supply electric **power** to the drive mechanism and detection mechanism. Preferably, a controller (22) regulates the drive mechanism by performing radio communication with the **tool** holder, based on the information from the detection mechanism.;

Use/Advantage

Ensures reliably supply of desired electric power to drive mechanism and detection mechanism. Size of tool holder is reduced since need for accommodating battery for power supply by tool holder becomes unnecessary.

Patent Family

Country & No. Date **Kind** **Derwent Week**

JP-10225836 25-Aug-1998 A DW.199844

Priority

Country & No. Date

JP-0067171 14-Feb-1997

Application

Country & No. Date

JP-0067171 14-Feb-1997

IPC

B23B-029/034; B23Q-003/12; B23Q-017/00; H02J-017/00

Derwent Class(es)

P54; P56; U24; X12;

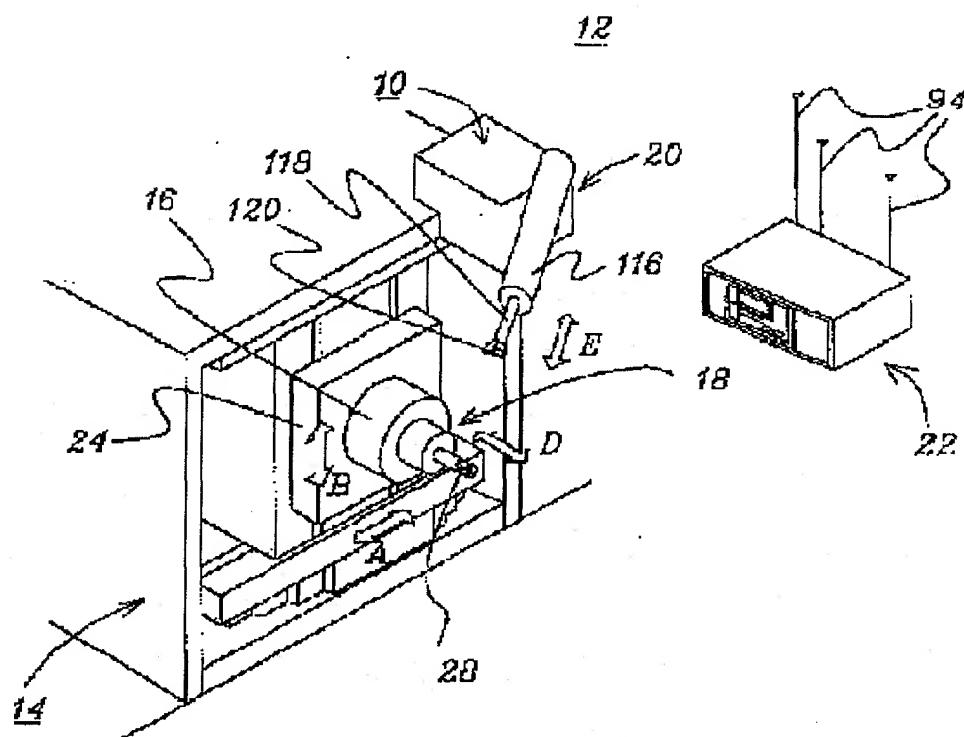
Primary

1998-514381

Accession

Number

Country: JPA - Patent No.: 10225836 - Image No.: 1 [[Hi Res Image](#)]



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